ACCESSION NR: AT4012867

is shorter than the deionization time, a pulse may proceed through the plasma channel created in the gap by the preceding pulse rather than through the liquid dielectric, thus creating the effect of a stationary arc discharge. For proper evaluation of the pulse frequency the gap must be considered as a nonlinear circuit element which determines the loading of the pulse generator. In the author's previous work ("Fizicheskiye svoystva iskrovogo promezhutka kak nagruzki generatora", "Problemy * elektricheskoy obrabotki materialoy" Moscow, 1962), it was established by application of paired pulses to the gap that for pulses with energies of the order of several tenths of a joule and durations of the order of 10-5 sec., the total electrode crosion is independent of the duty ratio if this ratio exceeds 4 to 5. The new method is based on evaluation of the repetitive discharge firing curve which relates the breakthrough potential required to obtain another discharge through the gap and the time elapsed from the moment when the preceding discharge current pulse has ended. The curve is obtained by applying to the gap a high-voltage (1000v) pulse followed by a variable-amplitude, variable-delay, probing pulse. For any fixed amplitude of the probing pulse and the delay between the high-voltage pulse and the probing pulse, the electrode spacing is varied at a constant rate and the gap voltage is photographed from the face of an oscilloscope. Statistical processing of many such photographs yields the desired set of curves, shown in

Card 2/4

ACCESSION NR: AT4012867

Figure 1 of the Enclosure. For proper electrode spacing, each curve consists of two parts, one with a steep slope and one with very gentle slope. The steep portion is connected with rapid deionization of gases filling the ensuing gas bubble in the gap after each discharge. The gentle portion of the curve is connected with gradual removal of fine metallic particles suspended in the liquid dielectric in the vicinity of the gap and gradual restoration of the dielectric stability in the gap. It is concluded that for rectangular discharge pulses the minimum allowable period which will prevent excessive generator loading is equal to the time interval covered by the steeply rising portion of the repetitive discharge firing curve. Orig.

ASSOCIATION: Teentr, n.-i. lab elektr. obrabotki metallov, AN SSSR (Central Scientific Research Laboratory for Electrical Metal Finishing, AN SSSR)

SUBMITTED: 00

DATE ACQ: 13Fob64

ENCL: 01

SUB CODE: MM

NO REF SOV: 004

OTHER: 00

Cord 3/4

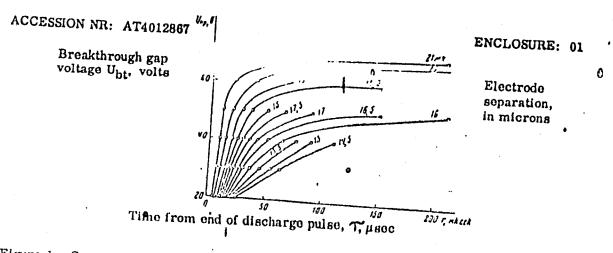
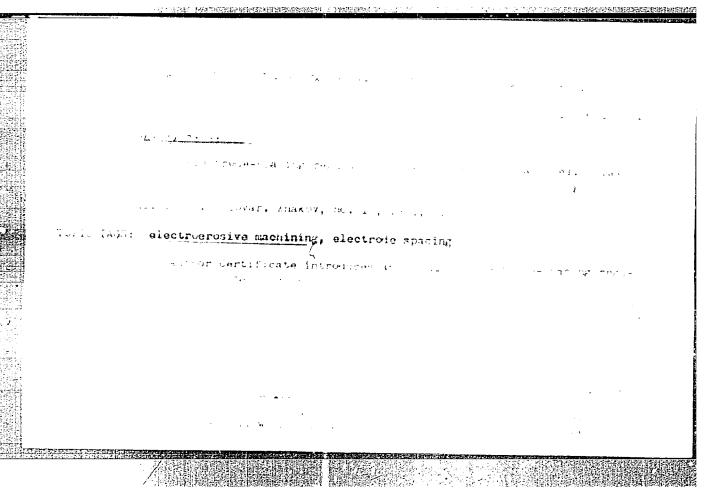
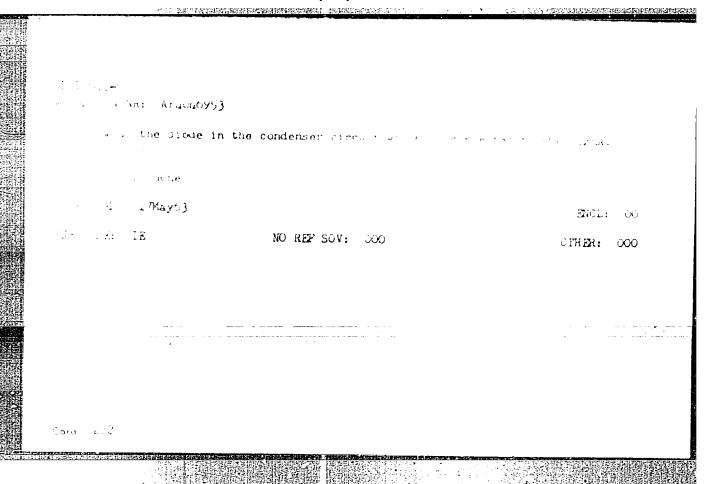


Figure 1. Curves of repetitive discharge firing for various electrode spacings. Energy of pulse = 0.04 joule, duration of pulse = 4 μsec, capacitance = 0.002 f (copper electrodes immersed in kerosene).

Card 4/4

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7





USSR

ACCESSION NR: AP3007446

\$/0286/63/000/009/0037/0038

AUTHOR: Kruglov, A. I.

TITLE: Pulse Generator for Electric Spark Machining of Current-Conductive Materials

SOURCE: Byul. izobret. i tovarn. znakov, no. 9, 1963, 37-38

TOPIC TAGS: electric-spark machining, current-conductive material, pulse generator

ABSTRACT: 1. Pulse generator for electric spark machining of current-conductive materials, in which the circuit for forming working pulses contains spark gaps, a charge inductance, a resevoir capacitor, a commutative gas-discharge tube, and a shunted diode of reverse polarity connected to a DC voltage source.

Distinguishing feature: In order to increase efficiency, eliminate overloads, of the power source and the gas-discharge tube, and also to cut down on power dispersed in the diode during short circuiting, a choke has been connected in series with the diode.

Card 1/3

ACCESSION NR: AP30071116

2. The device as per paragraph 1. Distinguishing feature: In order to raise the stability, and to eliminate the effect of interwinding capacitance, of the charge inductance, the latter is connected in parallel to the resevoir capacitor.

ASSOCIATION: none

SUBMITTED: 05Sep61

DATE ACQ: 140ct63

ENCL: O1

SUB CODE: GE, MD

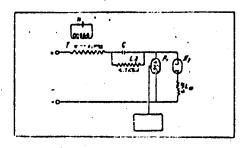
NO REF SOV: 000

OTHER: 000

Card 2/3

ACCESSION NR: AP3007446

ENCL: 01



T. pulse transformer; N - spark gap; L_o - charge inductance; G - resevoir capacitor; n_1 - commutative gas-discharge tube (thyratron); $L_{\overline{III}}$ - choke; n_2 - shunting diode.

Card 3/3

ACC NR AR6016965 SOURCE CODE: UR/0081/65/000/024/G030/G031 Kostromin, A. I.; Kruglov, A. I. 2% AUTHOR: TITLE: Coulometric determination of iron and aluminum impurities in selenium SOURCE: Ref. zh. Khimiya, Abs. 24G219 REF SOURCE: Uch. zap. Kazansk. un-t, v. 124, no. 3, 1965, 173-178 TOPIC TAGS: metal chemical analysis, amperometric titration ABSTRACT: In determining Fe and Al in Se, Fe²⁺ is determined by direct coulometric titration (CT) with electrogenerated Br₂ on a background of 0.2M KBr + 0.1 N H₂So₁. Al is precipitated with 8-hydroxyquinoline (I), the precipitate is dissolved in acid and I is titrated with Br₂. The CT and point is determined appropriately with 2 interest with Br₂. end point is determined emperometrically with 2 indicator electrodes under 200 mv potential. Background impurities ere pretitrated before the CT. In determining Fe in metallic Zn the sample is dissolved in HCl (1:1), the solution is diluted to a determined volume, and an aliquot portion is titrated. In determining Fe in Se, the sample (4 - 0.1 % Fe) is dissolved in a quertz dish in 1 - 2 ml concentrated HNO3 and evaporated to dryness for 30-40 minutes on a molten KNO3 (333°) bath. The residue is dissolved in 1 ml 7 N H2SO, metellic zinc is added to the Card 1/2

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7

ACC NRI AF				<i>c</i> •
etermined eparated t llute H ₂ SC imes with	volume. In det by sublimation a D, pH is adjust 8 1% solution o	ssolution, the solutermining 0.04 - 0.14 s described above, ted to 9.55, impuritif sodium diethyldith as a complex with I,	the residue is dissipated to the contracted to the contracted in t	colved in three CHCl ₂ , Al
residue 18 betract.	dissolved, and	or is carried out.	A. HILKING Trans	
SUB CODE:	07, 14			
		,		
Card 2/2 Z	د			

ACC NR. AP6026317 (A, N) SOURCE CODE: UR/0407/65/000/003/0019/0023

AUTHOR: Krugloy, A. I. (Moscow); Strygin, E. M. (Moscow)

ORG: none

TITLE: Investigation of metal erosion in air

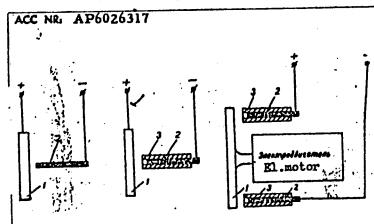
SOURCE: Elektronnaya obrabotka materialov, no. 3, 1965, 19-23

TOPIC TAGS: erosion, electrospark machining

ABSTRACT: Some experimental data on erosion of steel electrodes by capacitor impulse discharge in air is reported. Two series of experiments were conducted:

(1) Steel specimen 1 (see figure, left) was connected to the positive end of a relaxation generator; copper wire 2 was set at 0.8—1 mm from the specimen; the discharge took place when the voltage reached a high enough value; (2) The same copper wire 2 was placed in a quarts or porcelain tubing 3 (see figure, center) protruding beyond the end of the wire by 0.1—0.2 mm. It was found that in the second case, a much greater erosion took place, particularly with thinner tubing. The effect of relative motion of electrodes on erosion was investigated on a rotating disk (made from U-8 steel)

Card 1/2



installation (see figure, right).

To exclude the driving motor
(1200-20000 rpm) and its
bearings from the electrical
circuit, a two spark-gap
arrangement was used; voltage,
2.5 kv; gap, 0.7 mm. The above
experiments corroborated the
well-known fact that impulse
crosion in air is much smaller
than that in a liquid. This is

explained by a much higher speed of expansion of the discharge channel in air. A qualitative interpretation of the processes transpiring at the electrodes is offered. Orig. art. has: 2 figures and 2 tables.

SUB CODE: 13, 09 / SUBM DATE: none / ORIG REF: 003

Card 2/2

SOV/137-58-12-24908

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 12, p 128 (USSR)

AUTHORS: Kochergin, V. P., Nimvitskaya, T. A., Kruglov, A. N.

TITLE: Physicochemical Properties of Halide Electrolytes /Fiziko-

khimicheskiye svoystva galogenidnykh elektrolitov)

PERIODICAL: Byul. nauchno-tekhn. inform. Uraliskiy n. -1. in-t chernykh metallov, 1957, Nr 3, pp 160-168

ABSTRACT: The composition of the electrolytes (in mole/liter) is SnCl₂ 0.25 + NaF 0.9 + phenol 0.05 + HCl 3-4 g/liter + gelatin l g/liter (I), and SnCl₂ 0.25 + NaF 0.9, HCl 3-4 g/liter + gelatin l g/liter, technical fraction from the distillation of coal tar 10 g/liter (II). The stability of solutions I and II in the process of electrolysis is satisfactory, the decrease in the concentration of F⁻ and free HCl which was observed is related to the precipitation of NaF and to complex hydrolysis reactions. This does not, however, bring about any decrease in the Sn content of the solution. Physicochemical properties of both solutions

ai adduced.

V.S.

Card 1/1

KROGLOV A.A

AUTHORS:

57-40-31/33 Kruglov, A. N., Myzova, S. K., Korobova, I. P.

TITLE:

On the Dependence of the Electric Erosion of Metals on Pulse Energy (O zavisimosti elektricheskoy erozii metallov ot energii impul'sa) (Letter to the Editor)

PERIODICAL:

Zhurnal Tekhn. Fiz., 1957, Vol. 27, Nr 10, pp. 2421-2422 (USSR)

ABSTRACT:

In 1947 B. N. Zolotykh stated that the erosion of metals under the influence of current impulses in a liquid dielectric medium, with otherwise equal conditions, is directly proportional to impulse energy. The experiments, however, showed in a number of cases a deviation from the linear law. The analysis showed that this deviation exceeds tolerable measuring errors. This is seen especially clear if one of the electrole metals possesses ferromagnetic properties. The authors show that the displacement of the maximum of the curve $f = f_1(t_i) |_{WP} = const$ in the case of the

increase of impulse in the direction of an increase of the duration of impulse, proves the increasing of the density of the energy reaching the electrode from the channel. This is most abrupt if one of the electrodes is a ferromagnetic material. And just in this case the greatest deviation from the linear dependence of the erosion on the impulse duration occurs. The latter proves the essential influence of the magnetic field of the current on

Card 1/2

On the Dependence of the Electric Erosion of Metals on Pulse Energy. 57-10-31/33

the formation and on the measurements of the cathode and anode spots in the case of an impulse discharge of the type investigated γ -erosion, t_1 = duration of impulse, γ = the energy emitted in the spark gap. There are 1 illustration and 4 Slavic re-

ferences.

SUBMITTED:

March 7, 1957

AVAILABLE:

Library of Congress

Card 2/2

	sov/156-59-1-17/54
(2) LUTHORS:	Kruglov, A. N., Kochergin, V. P.
TITLE:	On the Complex Compounds of the Ions of Bivalent Tin With Sodium and Potassium Fluoride (O kompleksnykh soyedineniyakh ionov dvukhvalentnogo olova s ftoridami natriya i kaliya)
PERIODICAL:	Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya tekhnologiya, 1959, Nr 1, pp 70 - 74 (USSR)
ABSTRACT:	The complex formation of bivalent tin in a sulfuric acid solution is known. In the present work halogen salt solutions of tin are investigated, especially in the presence of sodium or potassium fluoride. For crystallizing the solution the following substances were used: SnCl ₂ .2H ₂ O, NaF, KF, HCl, distilled phenol and gelatin of the type "ch.d.a.". (In tinning phenol and gelatin are added as surface-active substances which promote the formation of dense tin covers). Stances which promote the formation of dense tin covers.
Card 1 '2	at various temperatures; moreover, the spectrum and the density of the solutions were measured. The conducti-

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On the Complex Compounds of the Ions of Bivalent Tin With Sodium and Potassium Fluoride

SOV/156-59-1-17/54

vity minima found (Diagrams, Fig 2) are indicative of complex compounds the composition of which only depends on the HCl content of the solution but not on temperature and the phenol or gelatin content. The tin ions accumulate more Fions in the presence of KF than in the presence of NaF. The potentiometric investigation showed a great number of possible complex compounds, according to the concentration of hydrochloric acid. Since Fions have a considerable polarizing effect they form more stable complex anions than SO2 ions. It may be expected that in tin-plate production H2SO4 solutions will be displaced by halogen salt solutions. There are 4 figures, 2 tables, and 16 references, 12 of which are Soviet.

ASSOCIATION:

Kafedra neorganicheskoy khimii Ural'skogo gosudarstvennogo universiteta im. A. M. Gor'kogo (Chair of Inorganic Chemistry of Ural State University imeni A. M. Gor'kiy)

SUBMITTED: Card 2/2

January 24, 1958

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SOV/110-59-2-19/21

Zektser, D.M. and Kruglov, A.N. Engineers AUTHORS:

Reduce the Range of Relays Type KDR (Sokratit' TITLE:

nomenklaturu rele tipa KDR)

PERIODICAL: Vestnik Elektropromyshlennosti,1959,Nr 2,pp 76-77(USSR)

ABSTRACT: Because of its simplicity and reliability direct current relay type KDR has come to be widely used. It is evident from the manufacturers' catalogue that there exist at least 1,135 different variants of this type of relay. Still other types are required by other organisations not concerned with this particular catalogue. Because of this great range of different types it is very difficult to organize mass production of these relays on a conveyor. In point of fact, in 1957 only 200 of the variants of the relay were actually ordered and in 1958, 300, the extension of the range mainly resulting from publication of the catalogue.

Card 1/2 Most of the orders were covered by a very few types of relay and many of the orders required only a small

Reduce the Range of Relays Type KDR SOV/110-59-2-19/21 number of relays. The number of different variants of this type of relay can be very easily cut down.

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7"

18 8310

S/081/61/000/001/007/017 A005/A105

Translation from: Referativnyy zhurnal, Khimiya, 1961, No. 1, p. 295, # 11173

AUTHORS:

Kruglov, A.N., Kochergin, V.P.

TITLE:

The Metal Corrosion in Halogeneous Solutions

PERIODICAL:

"Byul. nauchno-tekhn. inform. Ural'skiy n.-i. in-t chern. metallov",

1959, No. 7, pp. 83 - 85

TEXT: The authors showed by an investigation of the corrosion resistance of steels of different grades, Cu, and polyvinyl plastics in a halogeneous solution, composition (in g/l): SnCl₂ 63, KF 55, NaF 34, HCl 2-3, gelatin 1, and phenol 5, that polyvinyl plastics, St 1X 18149 (St 1Kh18N9) and ST 1X17H 36 8A3 (St 1Kh17N3G8Az) have high resistance to corrosion.

VA

From the authors' summary

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

SOV/80-32-3-20/43

AUTHORS:

5(2)

Kruglov, A.N., Kochergin, V.P.

TITLE:

Electrolytic Tinning of Metal Plates in Halide Solutions Containing Fluorides of Alkali and Alkali-Earth Metals (Elektroliticheskoye luzheniye zhesti iz galgenidnykh rastvorov, soderzhashchikh ftoridy shchelochnykh i shchelochnozemelinykh metallov)

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Vol XXXII, Nr 3, pp 582-588 (USSR)

ABSTRACT:

The solubility of the fluorides of lithium, potassium, magnesium, calcium, strontium and barium in a solution of SnCl₂ (0.21 mole/1), HCl (3-4 g/l), and gelatine (1 g/l) is many times higher than in a 0.5 n solution of HCl. The addition of surfaceactive substances increases the cathode polarization during electric precipitation of tin. The fluorides may be arranged according to their effect in the following rising series: Mg, Ca, Sr, Ba, Li, Na, K. Organic cation additions, like leucotron B, have a higher effect on polarization than molecular additions, like phenol. The cathode precipitate of tin with a thickness of 1 - 1.5 M at a current density of 20 - 40 a/dm²

Card 1/2

SOY/60-32-3-20/43

Electrolytic Tinning of Metal Plates in Halide Solutions Containing Fluorides of Alkali and Alkali-Earth Metals

and a temperature of 50°C forms a smooth surface. From halide solutions with additions of organic substances and in the presence of KF tin precipitates of a thickness of 3.5 μ are formed. There are 5 graphs, 1 table and 22 references, 19 of which are Soviet and 3 English.

SUBMITTED:

September 13, 1957

Card 2/2

ERUGLOV, A. N., Cand Tech Sci -- "Study of electrode processes and properties of halide electrolytes applied in the tinham Cold-rolled sheet iron." Sverdlovsk, 1961. (Min of Higher and Sec Spec Ed RSFSR. Ural Polytech Inst im S. M. Kirov) (KL, 8-61, 245)

- 256 -

(MIRA 15:11)

全国的基础的

KRUGLOV, A.N., kand.tekhn.nauk; KOCHERGIN, V.P., kand.khimicheekikh nauk

Tinning of cold-rolled sheet steel in sulfuric acid solutions
using a reverse current. Sbor. trud. TSNIICHM no.28:101-108

(Sheet steel) (Tin plating)

(MIRA 15:11)

KOCHERGIN, V.P., kand.khimicheskikh nauk; KRUGLOV, A.N., kand.tekhn.nauk Hydrogen supertension on tin in a sulfuric acid solution containing sodium fluoride. Sbor. trud. TSNIICHM no.28:118-120 '62.

(Tin plating)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7"

KOCHERGIN, V.P.; KRUGLOV, A.N.

Kinetics of the electrodeposition of tin by reversed current.

Zhur.fis.khim. 37 no.8:1682-1688 Ag '63. (MIRA 16:9)

1. Ural'skiy nauchno-issledovatel'skiy institut chernykh metallov i Ural'skiy gosudarstvennyy universitet, Sverdlovsk.

(Tin plating)

KHUGLOV, A.H.

Effect of trivalent iron on the process of catandic rickling of cold rolled metal. Stal! 25 no.2:189_189 F 165.

1. Ural'skiy nauchno-isaledovatel'skiy institut chernykh metallov.

. 0/156-6/ EWT(d)/EWT(m)/EWP(w)/EWP(j) LIP(c) WW/EM/RM

ACC NRI AR6014360

(A, N)

SOURCE CODE: UR/0277/65/000/011/0029/0029

AUTHORS: Delle, V. A.; Noskin, A. V.; Kruglov, A. N.

58 B

TITLE: Dynamic strength of glass-reinforced plastics during high-speed local loading

SOURCE: Ref. zh. Mashinostroitel'nyye materialy, konstruktsii i raschet detaley mashin. Gidroprivod, Abs. 11.48.245

REF SOURCE: Tr. Leningr. korablestroit. in-ta, vyp. 46, 1964, 3-8

TOPIC TAGS: fiber glass, impact strength, dynamic strength, material property

ABSTRACT: The results of experimentally determining the dynamic strength of fiber glass plates (6 mm thick) under concentrated simultaneous action of a hydraulic impact and a shock wave are presented. The evaluation criterion for the dynamic strength of the plate was the minimum amount of explosive causing nominal failure (penetration or damage to the surface of the tested material). For purposes of comparison, analogous experiments were performed with steel SKhL-4 and alloy AMg6T plates. The data show that fiber glass exhibits a low resistance to high-speed, local, dynamic loads. This is in sharp contrast with metallic construction materials which are used in domestic ship construction. Bibliography of 9 titles. Translation of abstract/

SUB CODE: 33 //

UDC: 678.5:677.521

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7

KRUBLOV, A. N.

Kruglov, A. N. - "An investigation of pneumatic transport enipment for grain", Trudy Vsesoyuz. nauch.-issled. in-ta zerna i produktov ego pererabotki, Issue 16, 1949, p. 107-29.

SO: U-h110, 17 July 53, (Letopis 'Zhurnal 'nykh State, No. 1., 1949).

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826710019-7

1 文 《天政治》中的中华国家的大学和明显的精神中华的大学中的

KRU HA V. A. H.

"On an Investigation of the Specific Consumption of Power by Pneumatic Installations for Unloading Grain From River Vessels Into Elevators." Thesis for Cand. Technical Sci. Sub 10 May 50, Moscow Technological Inst of Food Industry

Summary 71, 4 Sep 52, <u>Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950</u> From <u>Vechernyaya Moskva</u>. Jan-Dec 1950

ERUJIOV, A. kand. tekhn. nauk; KREYMERMAN, G., kand. tekhn. nauk

Low-capacity pneumatic grain-handling equipment. Muk.-elev.prom. 24 no.2:10-13 F 158. (MIRA 11:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut serna i produktov yego pererabotki. (Pneumstic-tube transportation)

PAL'TSEV, V., kand. tekhn. nauk; MALIS, A., kand. tekhn. nauk; KRUGIOV, A., kand. tekhn. nauk.

High-efficiency cyclene dust collectors. Muk.-elev. prem. 24 no.12: 9-12 D 158. (MIRA 12:1)

l. Vsesoyuznyy nauchne-issledovatel'skiy institut serna i produktev ege pererabetki. (Dust collectors)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7"

KRUGIOV, A., kand.tekhn.nauk.

Comparative testing of pneumatic grain-handling machines used at flour mills. Muk.-elev. prom. 25 no.10:20-23 0 '59. (MIRA 13:3)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut zerna i produktov yego pererabotki.

(Pneumatic-tube transportation)
(Flour mills--Equipment and supplies)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7"

PAL'TSHV, Vladimir Semenovich, kend.tekhn.nauk; MALIS, Abram Yakovlevich, kand.tekhn.nauk; KRUGLOV. Alfey Mikolayevich, kend.tekhn.nauk; GKL'MAN, D.Ya., red.; FREGER, D.P., red.izd-va; GVIRTS, V.L., tekhn.red.

[Pneumatic transportation of flour] Aerosol'transport muki.
Leningrad, 1960, 55 p. (MIRA 14:2)
(Pneumatic-tube transportation)
(Flour mills--Equipment and supplies)

BENDERSKIY, S.N., kand.tekhn. nauk; BURSIAN, V.R., prof., kand.
tekhn. nauk; VASIL'YEV, P.N., inzh.; EORFMAN, E.Ye., inzh.;
ZHURAVLEV, V.F., kand. tekhn. nauk; KESTEL'MAN, V.R.,
inzh.; KRUGLOV. A.N., dots., kand. tekhn. nauk; KUKIENYY,
A.A., dots., kand.tekhn. nauk; LEVACHEV, N.A., dots., kand.
tekhn. nauk; LEYKIN, A.Ya., inzh.; NAREMSKIY, N.K., dots.,
kand. tekhn. nauk; PLATONOV, P.N., prof., doktor tekhn.
nauk; SOKOLOV, A.Ya., prof., doktor tekhn. nauk; KUTSENKO,
K.I., kand. tekhn. nauk, dots., retsenzent; VEREMEYENKO,
Ye.I., inzh., retsenzent; KOVTUN, A.P., inzh., retsenzent;
SEMENYUK, A.I., retsenzent; KASHCHEYEV, I.P., inzh.,
retsenzent; PAL'TSEV, V.S., kand. tekhn. nauk, retsenzent;
KHMEL'NITSKAYA, A.Z., red.

[Conveying and reloading machinery for the overall mechanization of the food industries] Transportiruiushchie i peregruzochnye mashiny dlia kompleksnoi mekhanizatsii pishchevykh proizvodstv. Moskva, Pishchevaia promyshlennosti, 1964.
759 p. (MIRA 18:3)

(Continued on next card)

BENDERSKIY, S.N .-- (continued). Card 2.

1. Odesskiy tekhnologicheskiy institut imeni M.V.Lomonosova (for Kutsenko, Naremskiy, Veremeyenko, Kovtun). 2. Starshiy ekspert Upravleniya po avtomatizatsii i oborudovaniyu dlya pishchevoy promyshlennosti Gosudarstvennogo komiteta po mashinostroyeniyu pri Gosplane SSSR (for Semenyuk). 3. Glavnyy mekhanik Gosudarstvennogo instituta po proyektirovaniyu predpriyatiy mukomol'nokrupyanoy i kombikormovoy promyshlennosti i elevatorno-skladskogo khozyaystva (for Kashcheyev).
4. Zaveduyushchiy laboratoriyey Vsesoyuznogo nauchno-issledovatel'skogo instituta zerna i produktov ego pererabotki (for Pal'tsev).

AKOP'YAN, A.A., starshiy prepodavatel'; IRIDIOV, A'S., starshiy prepodavatel';
PLAVINSKIY, F.I., starshiy prepodavatel'.

Rasic and determining problems in manufacturing instruments.
Priborostroents mo.10:19-20 0 '57.

(RIPA 10:11)

1. LIAP

(Instrument industry) (Automatic control)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7"

KRUGLOV, A.S., inzhener

Modern electric instruments for measuring surface smoothness. [Izd.] LONITOMASH no.34:281-299 '54. (MLRA 8:10)

1. Leningradskiy institut aviatsionnogo priborostroyeniya.
(Surfaces (Technology))

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7"

SOV/112-59-2-3112

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 2, p 125 (USSR)

AUTHOR: Kruglov, A. S., and Monakov, A. K.

TITLE: A Device for Automatic Checking of Short-Circuited Turns in a Rotor Winding (Ustroystvo dlya avtomaticheskogo kontrolya korotkozamknutykh vitkov v obmotke rotora)

PERIODICAL: Tr. Leningr. in-t aviats. priborostr., 1958, Nr 20, pp 33-45

ABSTRACT: Bibliographic entry.

Card 1/1

8/112/59/000/014/035/085 A052/A001

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 14, pp. 151-

AUTHOR:

Kruglov, A.S.

TITLE:

An Analysis of Deficiencies of Electrodynamic Profilometers

PERIODICAL:

Tr. Leningr. in-t aviats. priborostr., 1958, No. 20, pp. 46-54

TEXT: It is pointed out, the basic fundamental deficiency of electro-dynamic profilometers is the dependence of their indications on the speed of the feeler movement. The causes of this dependence are analyzed. The second deficiency is a wrong relation between the frequency of free oscillations of the movable part of the pickup and the frequency of forced oscillations. For instance, when measuring clean surfaces the natural frequency of the movable part of the pickup of the KV device is 7-10 times less than the forced frequency leading to the loss of contact between the feeler and the investigated surface, or, when the pressure of the feeler on the surface increases, to a damage of the sur-

Card 1/2

S/112/59/000/014/035/085 A052/A001

An Analysis of Deficiencies of Electrodynamic Profilometers

face and to a lower accuracy of indications. The third deficiency is a high electric time constant of the measuring circuit. The mentioned deficiencies condition the error of indications on clean surfaces (9th class and higher) of \$\rightarrow\$ 40-50%.

A.N.K.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

KRUGLOV, A. S.: Master Tech Sci (diss) -- "Investigation of methods of graduating feeder instruments used to control the cleanness of machined surfaces".

Leningrad, 1959. 22 pp (Min Higher Educ USSR, Leningrad Inst of Aviation Instrument Building) (KL, No 12, 1959, 129)

KRUGLOV, A.S.

Development and experimental testing of the electromechanical equivalent for surface smoothness. Nauch.dokl.vys.shkoly; mash. i prib. no.1:236-241 159. (MIRA 12:8)

1. Stat'ya predstavlena kafedroy "Tekhnologiya aviapriborostroyeniya i organizatsiya proisvodstva" Leningradskogo instituta aviatsionnogo priborostroyeniya.

(Electromechanical analogies)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7"

	card ty/6	2	of Technical Sciences. Fridamentals of the in the Machining of Small Apoint Gange	Positioneter Scales	Ecceptato, V. D., Incheser. On of Chras-sies in Latrament Manifesters, 200	5		ì	led troubs	tions for	Pythodrow, S.A., Continue of Twinded Sciences. Estimating The Halling Declara in Smill-schala Spir Couring Deed in Serve System	ormany, 5.7., contains of Pelatest Setences, Erret of Indianal Setences, Erret of Indianal Section Sec	theoretical papers of merical control of the contro	COTABLE: The 25 certains deal risk the present state. And the outlook for the development sentences to believe the feedback process of the contraction of sentences to believe the contraction of sentences are discussed in the contraction of the besidess of sentences of sentences of the contraction of the besidess of sentences of	PREPART This enlimites of articles is intended for estantifie and technical personnel in the intrement industry.	Hall A.R. Sevetler, Device of Schnical Sciences, Professor: Sech. Ed.; A. Tu, Titharov; Munging Ed. for Literature on Sactime and Lectrowest Construction (Sanagin): E.Y. Schrovelly, Engineer.	Priberestrayeniye i imeritel'naya tabbalka (Instrument Mamifesture and Shamurement Pachaidpus) Moscov, Manhgis, 1961, Mc2 p. Errata slip inse 3,000 espine prisrad.	Final 1 SOM EXPLOITATION 607/1997 Sensing-initiatine surpe staticise two principal surpersonal formatty prompilarization.	
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KONDUKOV, H.B.; KOMMILAYEV, A.M.; SKACHEO, I.M.; AKHRCHEMKOV, A.A.; KHUGLOV, A.S.

Studying the parameters of the motion of particles in a pseudo-fluidized bed by the radioisotope method. Inzh.-Piz. zhur. 6 no.7: 13-18 Jl 163. (MINA 16:9)

1. Institut khimicheskogo mashinostroyeniya, Moskva i Institut neftyanoy promyshlennosti, Moskva.

(Fluidization) (Radioactive mashinostroyeniya)

L 14420-63

EWP(k)/EWP(q)/EWT(m)/BDS

AFFTC/ASD

JD/HM/HW-2

ACCESSION NR: AP3003973

3/0089/63/015/001/0030/0037

AUTHOR: Ibragimov, Sh. Sh.; Voronin, I. M.; Kruglov, A. S.

TITLE: Effect of neutron irradiation on the structure and mechanical properties of alloy steels

SOURCE: Atomnaya energiya, v. 15, no. 1, 1963, 30-37

TOPIC TAGS: iron neutron irradiation, nickel neutron irradiation, low-alloy-steel neutron irradiation, high-alloy-steel neutron irradiation, neutron-irradiated-iron property, neutron-irradiated-nickel property, neutron-irradiated-steel property, neutron-irradiated-alloy-steel property

ARSTRACT: The effect of neutron irradiation on the structure and mechanical properties of iron, nickel, IKhl6MSB ferritic steel, 2Kh2MS, 2Kh6MST, and IKhl2MS ferritic-pearlitic steels, and IKhl8MST and IKhl8MSB austenitic steels in the temperature range 200—500C was investigated (see Table 1 of Enclosure for compositions). Specimens 3 mm in diameter and 25 mm long were amealed and then subjected to irradiation by hard neutrons (average neutron energy (E) was 0.38 MeV;

Card 1/33

L 14420-63 ACCESSION NR: AP3003973

30% of the neutrons had E of over 1 Mev) at 320-5000 or soft neutrons (average E was 36 Kev; 10% of the neutrons had E of over 1 Mev) at temperatures below 2550. The irradiation had no effect on the grain size of iron and lkhl6MSB steel. Irradiation of iron at 200-2400 increased the tensile strength from 35.0 to 53.5 kg/mm² and the yield strength from 29.5 to 52.5 kg/mm²; corresponding increases for 1Kh16MDB steel were from 63.0 to 75.0 kg/mm 2 and from 44.0 to 66.0 kg/mm2. Elongation for iron dropped from 38.5 to 15.0% and for 1Kh164SB from 25.0 to 8.0%. The absolute values of changes depended on temperature end irradiation dose. The most intensive changes took place at 200-2400 and doses up to 1.1 x 1020 neutron/cm2 for iron and up to 2.8 x 1020 neutron/cm2 for 1Kh16MSB steel. A further increase in irradiation had no additional effect on mechanical properties, and the above doses can be considered as saturation limits. The strengthening defects caused by irradiation can be completely eliminated by annealing at 5000. The effect of irradiation on the mechanical properties of austenitic at and nickel is shown in Table 2 of the Enclosure. It can be seen that compl seen that compl. alloy steels have a higher saturation limit then iron and low-alloy steels. The radiation dejects can be eliminated by annealing at 430-650C. Irradiation of 2Kh24S, 2Kh6MST, and 1Kh124S steels at 200-360C with an integral dose of 8×10^{20} to 1.2 $\times 10^{21}$ neutron/cm² increased the tensile

Card 2/\$ 3

L 14220 63 ACCESSION NR: AP3003973

strength, yield strength, and hardness and decreased the elongation. Irradiation at 450-500C decreased the tensile and yield strength and resulted in an almost complete loss of ductility in the case of 2Kh2MS steel. Neutron irradiation had no effect on resistivity. The strengthening defects caused by irradiation at 200-240C can be eliminated by annealing at 350-575C. Irradiation with hard neutrons at 320-360C (integral dose, 1.2 x 10²¹ neutron/cm²) substantially changed the microstructure (dispersion and the form and size of the carbides) in 2Kh2KS and 2Kh6KST steels. Orig. art. has: 5 tables and 3 figures.

ASSOCIATION: none

SUBMITTED: 31May62

DATE ACQ: 08Aug63

ENCL: 02

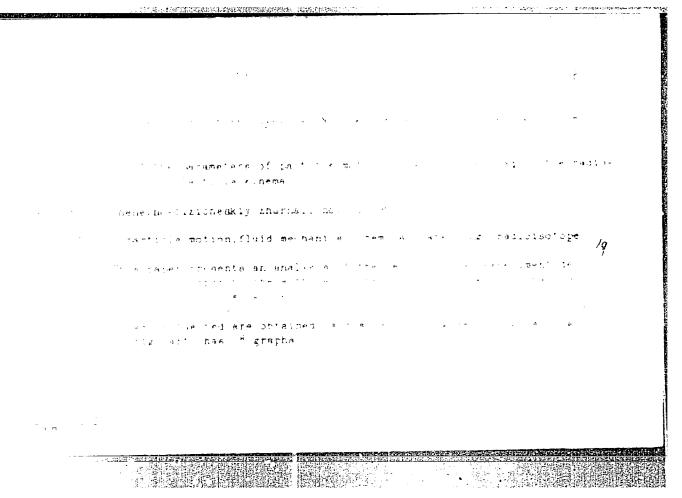
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NO REF SOV: 008

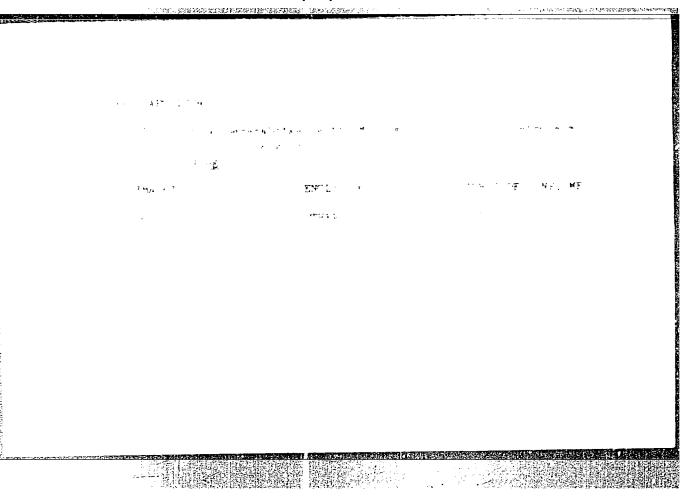
OTHER: 001

Card 3/83

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7



"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7



AKHREMENKOY, A.A.; KUMGLOY, A.S.

Investigating the structure of a finitized bed by the radioactive method. Khim. I tekh. topl. I maked a me.4:61-64 A 164. (MIPA 17:8) 1. Vecacyuznyy nauchno-ispledowatel toly institut to pererabetke nefti i gaza i polucheniyu nek metvancogo shidkogo topliva.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7"

L 441216_66 ENT(d)/ENT(1)/ENT(m)/ENP(f)/T_2 FT/NN/DJ

ACC NR: AP6018000(N) SOURCE CODE: UR/0413/66/000/010/0114/0115

INVENTOR: Mozalev, G. N.; Kruglov, A. V.

ORG: none

TITLE: Circular servovalve for hydraulic systems. Class 47, No. 181930 [announced by the Design Office of the State Committee for Machine Building at the State Planning Committee of the USSR (Konstruktorskoye byuro Goskomiteta po mashinostroyeniyu pri Gosplane SSSR)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 114-115

TOPIC TAGS: hydraulic equipment, servomechanism, valve

ABSTRACT: An Author Certificate has been issued for a circular sliding servovalve for hydraulic systems with preselective control of the working part, a tracking bush, and an anchor. To improve the setting accuracy of the working part in intermediate positions over its entire travel range, which approaches 180°, the valve anchor is designed with an axial groove linked with diametrically opposed sectional slots

Card 1/2

UDC: 62-522, 2, 002, 54

Card 2/2

L 44216-66_ ACC NR: AP6018000 distributed along the axis of the valve; the intersecting planes of the slots approach a diametrical plane and form cut-off edges. To protect the valve anchor from radial stresses caused by the pressure of the liquid, the anchor is also provided with paired balancing slots diametrically opposed to the sectional slots. Orig. art. has:1 figure. Discharge Pressurd Fig. 1. Circular servovalve for hydraulic systems. 1-bushing; 2-armature; 3-axial duct; 4-sectional slots; 5-balancing slots; A-pressure; SUBM DATE: 20Mar64/ SUB CODE: 13/

MAZALEV, G.N., KRUGLOV, A.V. The Ta50-2 edging machine. Der. prom. 14 no.1:15-17 Ja 165. (MIRA 18:4)

FRUNLOV, A. Z.

Iron Founding

Cast negative plates for chill casting. Lit. proiz. Mo. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952 1953/ Uncl.

33273 8/062/62/000/001/014/015 B101/B110

15.8112

AUTHORS:

Kotlyarevskiy, I. L., Shvartsberg, M. S., and Kruglov, B. G.

TITLE:

Synthesis and oxidative polycondensation of 4,4'-diethynyl

biphenyl

PERIODICAL:

Akademiya nauk SS3R. Izvestiya. Otdeleniye khimicheskikh

nauk, no. 1, 1962, 184 - 185

TEXT: By hydrogenation of p-diacetyl biphenyl on skeleton nickel catalyst at 50-60°C, the authors obtained in almost quantitative yield: CH₂CH-C - C-CHCH (II), melting point 161.5 - 162.5 C. This compound

was dissolved in dioxane, and dehydrated by an Al₂O₃ catalyst at 330°C.

The resultant, unpurified 4,4'-divinyl biphenyl, dissolved in CCl₄, was brominated: CH₂BrCHBr- - CHBrCH₂Br. This tetrabromide had a melting

point of 204-204.5°C (under decomposition), the yield referred to II was 14 - 16%. The tetrabromide was dehydrobrominated by KOH to 4,4'-diethinyl biphenyl (yield 50 - 55%), melting point 163 - 164°C. This compound may Card 1/3

33273 \$/062/62/000/001/014/015 B101/B110

Synthesis and oxidative ...

be polycondensed in pyridine with CuCl as a catalyst, or in aqueous-alcoholic solution with CuCl-NH₄Cl. The following structure is assumed for the unsoluble, yellow or orange-colored oligomer:

H [C=C] -C=C] H.HCl. The oligomer does not explode when heated, and is poorly inflammable. The infrared spectra taken at Academician I. V. Obreimov's laboratory in the INEOS showed the bands for 1,4-substituted aromatic rings and for acetylene hydrogen. The presence of carbonyl groups due to partial hydration of the triple bond of the end group is also possible. There are 4 references: 3 Soviet-bloc and 'non-Soviet-bloc. The reference to the English-language publication reads as follows: A. S. Hay, J. Organ. Chem., 25, 1275 (1960).

ASSOCIATION: Institut nefte- i uglekhimicheskogo sinteza Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Petro- and Coal-chemical Synthesis of the Siberian Department of the Academy of Sciences USSR)

Card 2/3

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP

CIA-RDP86-00513R000826710019-7

Synthesis and oxidative ... SUBMITTED: July 22, 1961

33273 5/062/62/000/001/014/015 B101/B110

Carl 3/3

KOTLYAREVSKIY, I.L.; SHVARTSBERG, M.S.; ANDRIYEVSKIY, V.N.; KRUGLOV, B.G.

Highly unsaturated polymers. Report No.7: Linear polynuclear diethinylarenes and their oxidative polycondensation. Izv. AN SSSR. Ser. khim. no.11:2032-2036 N '63. (MIRA 17:1)

1. Institut khimicheskoy kinetiki i goreniya Sibirskogo otdeleniya AN SSSR.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7"

VLASENKO, V.M.; KRUGLOV, B.I.; ROZENFEL'D, M.G.; RUSOV, M.T.

Preparation and regeneration of zinc-chromium catalysts in the synthesis of alcohols. Rhim.prom. no.1:1-6 Ja '61. (MIRA 14:1) (Catalysts)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7"

CALLES EN PROPERTIENTAL CONTREMANDA CONTREMANDA

KRUGLOV, B. I. [Kruhlov, B. I.]; ZUBOV, V. I.; SHCHEPINOV, S. A.

Preparation of methyl alcohol by catalytic hydration of dimethyl ether. Khim. prom. [Ukr.] no.1:10-13 Ja-Mr '62.

1. Lisichanskiy khimicheskiy kombinat.

(Methanol) (Methyl ether)

VLASENKO, V.M.; KRUGLOV, B.I.; ROZENFEL'D, M.G.; RUSOV, M.T.; SICHKOV, P.V.

Change of properties of zinc-chromium catalysts in the course of isobutyl alcohol production. Khim.prom. no.4:244-248 ap '62.

(Isobutyl alcohol) (Catalysts)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7"

KRUGLOV, B.I. [Kruhlov, B.I.]; MIKHAL'OVA, Ye.F. [Mykhal'ova, IE.F.]

Concentration and purification of expansion gases with magnesium ores. Khim. prom. [Ukr.] no.125-8 Ja-Mr *63 (MIRA 17:7)

1. Ideichanskiy khimicheskiy kombinat.

KRUGLOV, B.I. [Kruhlov, B.I.]; SOPOVA, Z.V.; KUSHNARENKO, G.I. [Kushnarenko, H.I.]

Ferromolybdenum catalysts for the oxidation of methanol in formaldehyde. Khim. prom. [Ukr.] no.3:3-8 J1-8 63. (MIRA 17:8)

(MIRA 17:6)

31

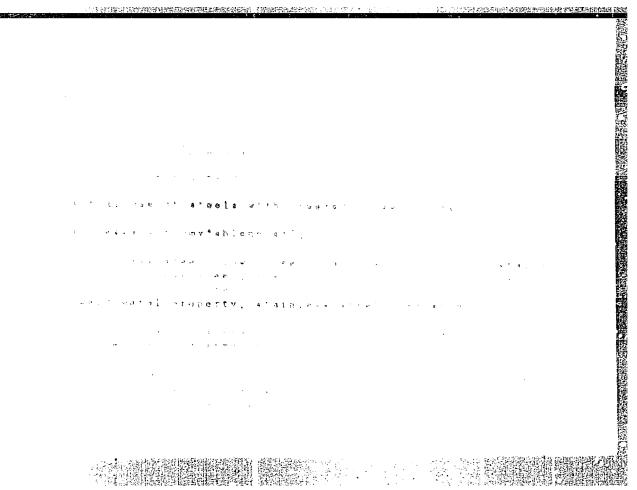
KRUGLOV, B.I. [Kruhlov, B.I.], MIKHAL'OVA, Ye.F. [Mykhal'ova, E.F.] Reduction of zinc-chromium catalysts in alcohol synthesis. Khim. prom. [Ukr.] no.4:15-19 0-0:63.

CIA-RDP86-00513R000826710019-7" APPROVED FOR RELEASE: 06/19/2000

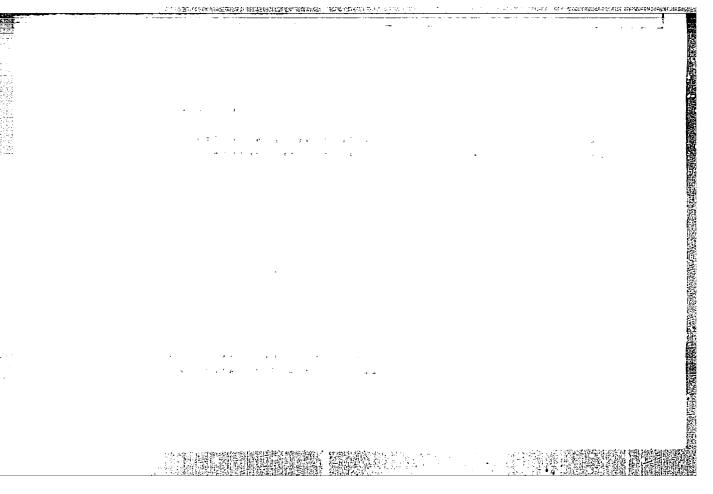
KRUGIOV, B.1. [Krnhlov, B.1.]; PAKHONOVA, L.S.

Hydrogenation of crotonaldehyde, a by-product of acetaldehyde production. Khim. prom. [Ukr.] no.3:21 J1-S '64.

(MIRA 17:12)



"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7



GOGIN, V.F.; KRUGLOV, B.I.

Advanced practices of the Lisichansk chemists. Kaim. prom. 40 no.9: (MIRA 17:11) 641-642 S 164.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7"

GCGIN, V.F. [Hohin, V.F.]; ERUGLOV, B.1.

Advanced practices for the utilization of natural gas by the chemical industries. Mhim. prom.[Ukr.] no.1:67-69 Ja-Mr '65.

(MIRA 18:4)

KECLOV, B.S.

Perforation of Jacquard cards according to an undeveloped design. Tekst. prom. no.2:51-54 F 163. (MIRA 16:4)

1. Nachal nik gobelenovogo proizvodstva fabriki imeni F.E.Dsershinskogo Ivanovskogo soveta narodnogo khosyaystva.

(Jaquard weaving)

KRUGLOV, B. J.

New multiposition key mechanism for card-punching machines. Tokat. prom. 25 no.7:38-40 Jl 165. (MIRA 18:8)

1. Zamestitel' nachal'nika gobelenovogo proizvedstva fakriki imeni Dzerzhinskogo, Ivanovo.

Middional parameters

Group nothed for the punching of Jacquard cards from an undeveloped pattern. Tekst. prom. 25 no.8:34-38 Ag 165. (MIRA 18:9)

1. Zamestitel nachal nika gobelenovogo proizvodstva fabriki imeni Dzerzhinskogo, Verkhne-Velzhakiy Sovet narodnogo khozyaystva.

SHABALIN, I.I.; KRUGLOV, E.A.; VAYSBERG, K.M.

Spectral determination of naphthalene and its derivatives in gas oil from catalytic cracking. Khim.i tekh.topl. i masel 7 no.11:25-28 N *62. (MIRA 15:12)

(Petroleum produdts)

(Naphthalene-Spectra)

VAYSBERG, K.M.; KRUGLOV, E.A.; KHABIBULLIN, M.F.; SHABALIN, I.I.

Using the gas-liquid chromatography method for studying the various types of haphthalene. Koks i khim. no.3:44-47 163. (MIHA 16:3) (Naphthalene) (Gas chromatography)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7"

KULAKOV, V.N.; VARFOLOMEYEV, D.F.; BONDARENKO, M.F.; KOTOVA, V.N.;
AKHMETOV, I.G.; KOLYCHEV, V.M.; NOSAL', G.I.; KIVA, V.N.;
PANKRATOVA, M.F.; KRUGLOV, E.A.; SHMELEV, A.S.; SHABALIN, I.I.;
SHIRMUKHAMETOV, O.A.; ISYANOV, I.Ya.; RATOVSKAYA, A.A.;
VAYSBERG, K.M.

Technology of the production of naphthalene from the refining products of eastern oils. Nefteper. i neftekhim. no. 4:30-33 (MIRA 17:5)

1. Nauchno-issledovatel*skiy institut neftekhimicheskikh proizvodstv i ordena Lenina Ufimskiy neftepererabatyvayushchiy zavod.

KRUGLOV, E.A.; VAYSBERG, K.M.; ABRAHOVICH, Z.I.

Investigating the individual composition of the synthetic fatty acids of petroleum paraffins. Khim. i tekh. topl. i masel 9 no.5:36-38 5 My'64 (MIRA 17:7)

1. Nauchno-issledovatel*skiy institut neftekhimicheskikh proizvodstv.

LEZHNEVA, N.A., KRUGLOV, E.A., Frinimela uchastiye RATOVSKAYA, A.A.

Polarographic determination of bicyclic aromatic hydrocarbons in petroleum products. Khim, i tekh.topl. i masel 10 no.ll: 58-61 N *65. (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel skiy institut neftekhimi-cheskikh protsessov.

US3R / General and Special Zoology. Insects. Harmful Paracts and Arachnids. Posts of Grain Crops.

Abs Jour: Ref Zhur-Biol., No 14, 1958, 64016.

Author : Kruglov, F. G. Inst : Not givon.

Title : The Bases of Controlling the Grain Boutle.

Orig Pub: Zashchita rast. ot vredit. i boloznoy, 1957,

No 4, 24-25.

Abstract: In addition to the usual agrotochnical measures against the beetle, it is recommended harvesting the crop by a divided method and, when sowing winter wheat on winter wheat, safeguarding the

winter wheat on winter wheat, safeguarding the semi-fallow soil by means of shallow-plowing the stubble immediately after harvesting, doep plowing in of the stubble in two weeks and double cultivation with harrowing to keep the field free from

Card 1/2

36

USSR / General and Special Zoology. Insects. Haraful Insects and Arachnids. Posts of Grain Crops.

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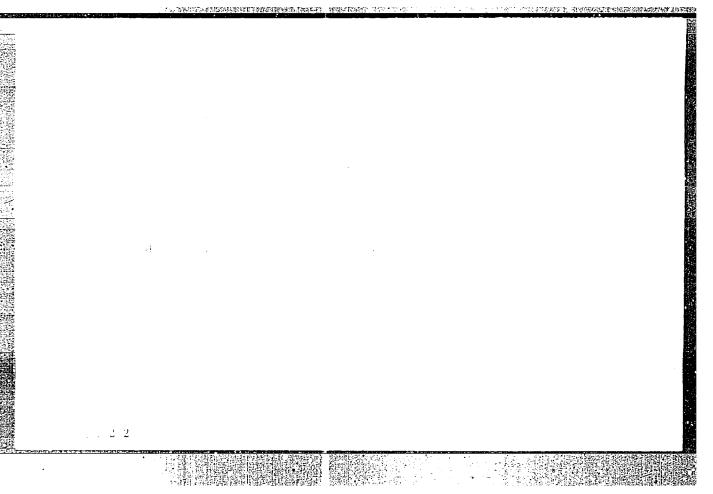
Abs Jour: Ref Zhur-Biol:, No 14, 1958, 54016.

Abstract: weeds. Measures of chemical control are: introduction into the soil of 40-50 kg/ha of 12% 3hC dust prior to planting in case of strong infestation of the field by the beetles; dusting the young crop (better, 2-3 times with intervals of 7-10 days) with 25-50 kg/ha of 3hC, embedding it into the soil to a depth of 5 cm, thus insuring the elimination of 80-90% of the larvae of the beetle's younger generations. -- A. P. Adrianov.

Card 2/2

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7

Box - Schools and be-all-ba-		
1 12 12	55 FPA(s)-2/ENT(m)/ENP(w)/EPF(n)-2/ENA(d)/EMP(t)/EMP(b) Pt-10/Pu-4	
	S. Kruglov, F. V.	
	of the English group part in the constant of t	
Card 1/6		GANALE ALGORITHM



··· 中 "完成的自然使用"的解除,我是我们的特别的。 鐵 的 計算企業 "

KRUGLOV, G.

For rhythmic work in an enterprise. Sov. professinsy 2 no. 6:33-38 Je 154. (MLRA 7:7)

1. Predsedatel komiteta profsoyuma savoda "Uralelektroapparat" (g. Sverdlovsk). (Mectric industries) (Trade unions)

KRUGLOV, G.A., inzh.

Rhythmic freight and train operations in railroad divisions. Zhel. dor.transp. 42 no.12:52-57 D '60. (MIRA 13:12)

1. Zamestitel' nachal'nika Donetskoy dorogi, st. Ilovayskoye. (Railroads--Freight)

8/119/61/000/005/001/00a

1560

AUTHORS:

2508

Kruglov, G.A., and Tarasevich, I.K.

TITLE:

Diamond machining of clock parts

PERIODICAL: Priborostroyeniye, no. 5, 1961, 19-21

TEXT: The Institute NIIChasprom has issued a standard "ON-6-87-60" for the diamond cutters to be used for turning clock parts.

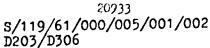
NIIChasprom is at present working on the problem of diamond milling. It has been found that with a diamond cutter it was possible to obtain surfaces with a high 11-12 grade of smoothness. This grade of smoothness does not however guarantee clear reflecting qualities. Investigations have shown that surfaces obtained by progressive turning, using diamond cutters with tips rounded to 2-2.5 mm radius are uneven. This method of turning is not recommended. Satisfactory results were obtained with turnings using the "cutting-in" method. The cutter's geometry is shown in Fig. 1.

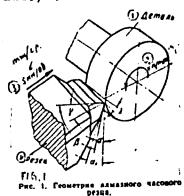
Card 1/6

Diamond machining of clock parts

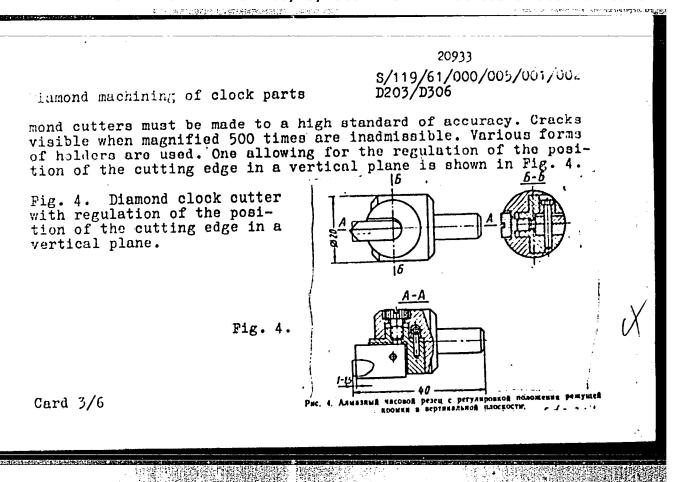
Fig. 1. Geometry of diamond clock cutter.

Degend: 1 - Part; 2 - m/min; 3 - 9m/op; 4 - cutter.





The values of the angles are: $\beta = 90$ to 105° , the front angles $\gamma = -10^{\circ} - 12^{\circ}$, the rear angles $\alpha = 2$ to 4° , the inclination of the cutting edge $\lambda = 10$ to 15° . Only part of a width of 0.2 to 0.6 mm of the working face of the cutter may be set for cutting. The diacord 2/6



S/119/61/000/005/001/002 D203/D306

Diamond machining of clock parts

 $\mathcal{C}X$

The sensitivity of the diamonds to vibration and shocks require the use of rigid and well-balanced high-speed machine tools. Experiments show that turning velocities of 20 to 425 m per min. only slightly influence the quality of the machining. The depth of the cutting depends on the smoothness required. As a rule a pre-machined surface should not be cut deeper than 0.07 mm, while for machining in a single operation this may be lowered to 0.03 or 0.04 mm. Some recommended velocities for cutting various parts of clocks, machined on lathes used by clock-factories are given in the following table:

Card 4/6

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			20933		
Diamond machining of clock parts			S/119/61/000/005/001/002 D203/D306		
Name of Ma- chined Part	Material	Type of Lathe	Velocity of Cutting in m/min	Depth in mm per Operation	
Shell ring, rim	Brass, Neusilber, Aluminum of the	S-57 1046	200-300	0.003 -0.004 0.004 -0.0045	
	grade AVCh	S-49, S-175		0.0035-0.0045	
dial (en- graving of the numbers)	Brass	S-178, S-49	95-125	0.003 -0.004	
	Tompack			0.004 -0.005	
Balance	Brass Neusilber Beryll-	"Tornos"	90-120	0.003 -0.004 0.004 -0.0045	
	Bronze			0.004 -0.0045	
Plugs	Brass	"Tornos"	20-100	0.003 -0.004	
Card 5/6		,			

20933

Diamond machining of clock parts

S/119/61/000/005/001/002 D203/D306

When cutting parts containing lead, a layer of metal is often formed on the cutter. Lubrication, using mineral or vegetable oils, give good results in preventing this. In normal conditions from 15,000 to 1 million parts could be machined with careful handling before a diamond cutter would need re-turning. A cutter could be re-turned up to 6 times. There are 4 figures and 1 table.

Card 6/6

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KRUGLOV, G.A., inzh.; KOROVIN, V.A., inzh.

The 59-P instrument for determining the degree of machinability of materials. Priborostroenie no.6:25 Je '61. (MIRA 14:6)

(Testing machines)

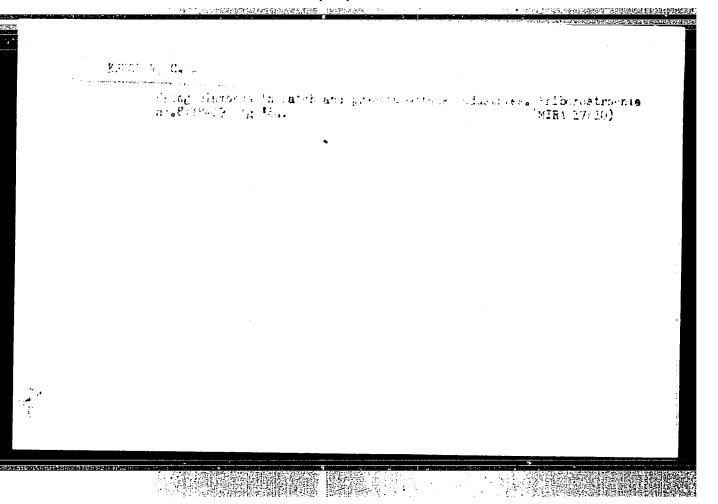
KRUGLOV, G.A.

Organization of rhythmic operations on the main line. Zhel.dor.transp. 43 no.10:37-45 0 '61. (MIRA 14:9)

1. Zamestitel' nachal'nika Donetskoy dorogi, g. Stalino. (Railroads--Management)

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KRUGLOV, G.A. (Donetsk)

Improved utilization of freight cars. Zhel. dor. transp. 47 no. 11:12-17 N '65 (MIRA 19:1)

1. Zamestitel' nachal'nika Donetskoy doregi.

MALITSEV, Fetr Mikhaylovich, prof., coktor tekhn. nauk; Middov, V.A., prof., retsenzent; KRUCHINIH, V.F., inzh., retsenzent; KRUGLOVA, G.I., rod.

[Technology of malt and beer; special course] Tekhnologila soloda i piva; specialinyi kurs. Moskva, Pishchevaia promyshlennosti, 1964. 858 p. (MIRA 18:1)

	Cart 2/2	afficiency of the burbine must be not lower assumbled of profiles with a 1005 reaction of fineholder. The embastion dander has best to be a sentenced by a small-size plant air hearty is essented by a small-size plant air hearty is ensured by a small-size plant air hearty instantion a sentent presents of the deliver importion approxes presit the reacts etc.; small of a progress time relay. Trunclatur's note: This is the fall truncle short, aborty.	FIREMS: Seateway, V. O., Cherryah, D., T., Chiller, O. P. TILLA: One-Turbine Data UT-700-A with Central Publication of the State of Central Publication of the State of Central Publication of the State of the Stat	26.2/2/ Translation from Aufornitry shumal, El	
	*	r inm ST. A li-top compressor is and with a relativity low coefficient been designed on the basis of investign for extending the design of the region relation (75%). A lythodramate control system by and stop of the installation by Y. S. P.	O., Cherryah, D., T., Galprin, Tu. D., Shahashry, S.Z., P. Dait GT-700-4 with Centrified Supercoarger 280-11-2 mandimentrals. s-da, 1997 (1993), No. 1, pp. 69-91 Navos of centrified supershargery with a gus-humbno sea plipulates are: a variable mass-y of the main gas plipulates are: a variable mass-y of the maintenance of a high efficienty at considerable to the manufacture of a high efficienty at considerable to the matternance of a high efficienty at considerable of the control (res) the control (res) to control (res) to control (up to 1,15 fair). The central (rice) part of the gree, the first three haring a lee degree of reaction working. According to the experimental data the	4/112/34/02/701/701/705 4/112/39/702/701/701/705 4/52/4001 14/174/40/1144 1959, He. 14, p. 57,	

SOV/124-58 4-4619

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr4 p137 (USSR)

AUTHOR: Kruglov, I. N.

TITLE: New Automatic Mechanized Installations for Determination of the Soil Compaction by the Static Loads (Novyye avtomekhanizirovannyye ustanovki dlya opredeleniya szhimayemosti gruntov

staticheskimi nagruzkami)

PERIODICAL: Tr. Soveshchaniya po inzh. -geol. svoystvam gorn. porod i met odam ikh izucheniya. Moscow, 1957, pp 254-263

ABSTRACT: The article describes two new automatic installations for static soil tests in the test pits 1.5 - 1.8 meters deep. It describes the arrangement of the installations and presents a brief characteristic of details. The installations have been tested in field conditions.

1. Soils--Testing equipment

S. A. Roza

Card 1/1

KRUGLOV, I., kand.tekhn.nauk; GALITSKIY, V., inxh.; ZOBACHEV, N., tekhnik.

Automatic equipment for the field testing of soils.

Ger. i sel'.stroi. no.5:18-20 My '57.

(Soil mechanics)

(Soil mechanics)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826710019-7"

KRUGLOV, I.M., dotsent, kand.tekhn.nauk

Ground waters of a watershed in the Zaporozhiye Steppe and the dynamics of its level the caused by industrial structures.

Nauch. zap. MIIVKH 19:308-342 157. (MIRA 15:2)

(Zaporozhiye-Water, Underground)

